

PROCESS OF GENERATION OF ELECTROLYTIC ELECTRIC DISCHARGE AND GEAR FOR ITS IMPLEMENTATION

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Inventor(s): TAZMEEV B KH;; TAZMEEV KH K
Applicant(s): KAMSKIJ POLITEKHN I
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Abstract

generation of low-temperature plasma, plasma chemistry, plasma technologies of machining of metals and materials, plasma chemical reactors. SUBSTANCE: process of generation of electrolytic electric discharge consists in initiation of discharge between electrolytic cathode and solid anode, electrolyte to discharge area being supplied through porous dielectric. Electrolyte proper is prepared from aqueous solutions of salts of alkali metals and aqueous solutions of alkalis with mass concentration from 1.0 to 30.0 kg/cu m. Gear for generation of electrolytic electric discharge has solid current lead and electrolyte in the capacity of cathode, solid anode and hydraulic system for electrolyte circulation. Cathode is fitted with dielectric porous body and is so installed that space for passage of electrolyte is formed between current lead and porous body. Solid anode is fabricated in the form of ring and is placed opposite to porous body of cathode so that plane of ring is parallel to outer plane of porous body. Ring-anode is closed by insulator on side of cathode and on outside. EFFECT: enlargement of active working zone of discharge by way of increase of its length. 2 cl, 1 dwg

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